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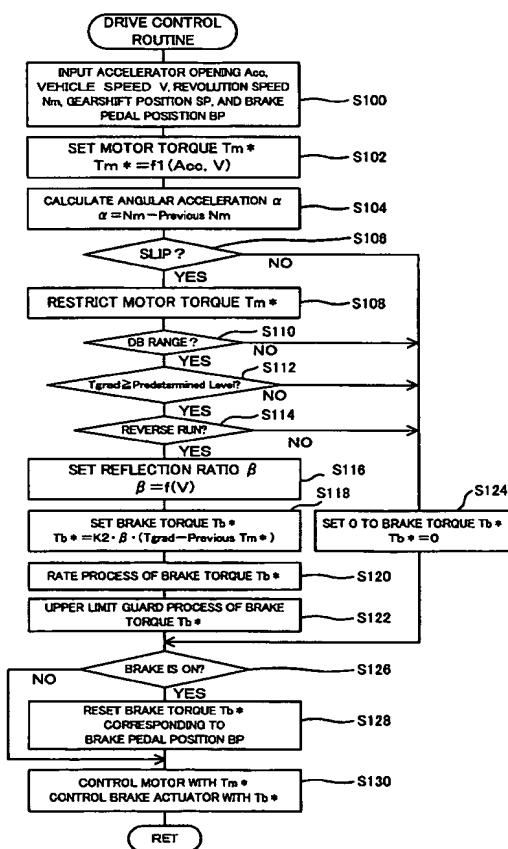
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(54) Title: VEHICLE AND CONTROL METHOD OF VEHICLE SLIP-DOWN VELOCITY



(57) Abstract: In response to detection of a slip-down of a vehicle under restriction of a motor torque  $T_m^*$ , which is required for a drive shaft linked with drive wheels, due to the occurrence of a slip caused by spin of the drive wheels on an ascending slope, the technique of the invention multiplies a torque insufficiency by a ratio (reflection ratio  $\beta$ ) specified according to a vehicle speed  $V$  in a reverse direction, so as to set a brake torque  $T_b^*$ . The torque insufficiency corresponds to a difference between the restricted motor torque  $T_m^*$  and a balancing torque  $T_{grad}$  corresponding to a road surface gradient set according to the relation between an acceleration of the vehicle and a torque output to the drive shaft. The setting of the brake torque  $T_b^*$  makes the velocity of the slip-down of the vehicle approach to a preset vehicle speed. The brake torque  $T_b^*$  is applied by hydraulic brakes attached to driven wheels, which are different from the drive wheels. The arrangement of the invention regulates the velocity of the vehicle that slips down the ascending slope by the restriction of the motor torque  $T_m^*$ .

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